

*sub* [ ] 1. (Three Times Amended) A method of detecting one of electromagnetic radiation in the optical range and nuclear radiation, comprising the steps of:

*D1* exposing a microcantilever to a non-contact source of electromagnetic radiation, the microcantilever having at least one physical property affected by electromagnetic radiation;

*C1* monitoring electromagnetic radiation-induced changes in the at least one physical property; and

*C1* correlating changes in the at least one physical property to a measure of the electromagnetic radiation.

*sub* [ ] 17. (Three Times Amended) An apparatus for detecting one of electromagnetic radiation in the optical range and nuclear radiation, comprising:

*D3* a radiation sensor having an element exposed to a non-contact source of electromagnetic radiation, the sensor having at least one physical property affected by the electromagnetic radiation;

*C8* means for monitoring electromagnetic radiation-induced changes in the at least one physical property of the sensor; and

*C8* means for correlating changes in the at least one physical property to a measure of the electromagnetic radiation.